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A Mac By Any Other Name? Guess Not more Drawert May Clab with Armin tenned up with the core of all that is Compare Club, sells lined-comparables we thought that was

Plutiana (CHRP) (For more on the story, page 12.) That effectively outs off supleng

Back when Apple finally decided to ers, many observers mourned it was more In March, market ensurch flero Concretor

Mac stone venduo were helping the Mac So, does Apple have a grand enteter

decision to keep cloners off the market. IBM/nebMicrosoft players and closers. helm to interest CEO, (Please see

tral is the years to the OShanbusin factors memulity. This is a marked contrast

said the movement of clones in the

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expression, operant stores in Victoria, stores in Edmorron, Chiesey and Red Deer cidated men -- our craphics, education

Intelligence save Apple has more brand or on 1995 houselst amplier Machillack.

Recarding Apple's decision to not In other news, Patare Shop will no longer Apele Causis, and in September, Apole Considerant Forces Show come to "a mobaship." He clied differing turnet customers

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### What were those Pentium Pro limitations?

I did west to sek about a comment at Alien Zomens omale entated "Clara ON's Chollenge latel At Alich Fook " (CCIV tions. This would be very important and interesting to one as it would assume in relating CPUs for my clients I con-

I always once the other action suggised in COV and expensely the hornor wanting displayed in Isla Zisman's proheadwises. In the other side, it is these problems that bely keep me in business

The Basting States as presented CRV decision Magazinakos, there are record interferors under have surface decreased

2 Ter-Person Pro was optimized for surroug 32-bit code it in less efficient at surroug 35-bit code There are a number of places for the Paratum Fro. In personler, there are mushed-contidengers than support real

As 18gins seeing its speed top out at around 2006fe to 2076fe), while Person II designs are already at 2016feb. well-made/s some to distably procused for the cost year CCW BULLETIN BOARD (proper for a product persies or partner)

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### Digital has recalled some AC power adapters

Daniel Economics Com has namekin that remists nower from an HNan- VP 500 line of notebook

wild letween September 1996 and Aurus 1997. Free prolacement

### High-tech virtual pets banned in school (NIS) - Record paren in classrooms around the U.S. were based

Like most field, the small egg shaped devices become highly sought after

see, effection, health care and attention must be provided by the owner her lacks the araticual intelligence to make it is in school. Officials at Bay A weakesperson for the school send: "Students are point to have to leave their electronic pers at home. They are causing a distraction in the classroom?

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Apple Computer abandons Marintosh clone experiment

Recently Apple's chief financial "We have no plots at this time

reference platforms, CHRP And this vistement was trice in an Widnest a Reesce to use MacOS S on a CHRP based comparer system or without certificaconnect build and sell systems competitive to

Apple shared that news, after appound-ESPECIAL PROPERTY. und as USS100 mellion in Apple common its name, and the company has already Apple and Urain Computer Corp.

> exit the Mac close business, because it has "not been able to reach as accomable longtern because assessed with Apple

HP/Mitsubishi partner for lightest, thinnest notebooks However, Perkard has announced a collabora-

Electric Corp. to "trushle the two communes ofactorias etroretis with HP's nombook PC switch expertise, distribution and support infrastructure." The reconcerned was made by HP with the exection of exceeding its product five with the thinnest, Tighter notebook PCs vel brought to market, such the

A professionary 'conserpt' netribusk was The new product is intended to weigh 3.1 chies, be less than one ruch thick, with a 12 hands TPT scenes, Danes Saverd, bestmobile products stated "HP's collaboration

this new relationship will go even further in If I'll' can deficientate sholl from the mobile companies platform, it may be able to powerbasios, or pull 1-800-383-3887. (#

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matility and continued growth informatic Christian workforce is being redoced by III people, primarily in the oreis of manageriest, finance, sides and matieurs; As part of the restructuring. Doe lacknow has been arread county manager. Informatic Software (Control III to David

### Calgary developer DiscoverWare Inc. — on the go!

Things are receiving along for Colgary's own Discover/Weet Inc. This summer, that developer of interactive restrincing increase orderware represented a private placement of more than these realism dellars, by Dealar (Linarrolougy) Sent. — a moreber of the Dealar international group of componers.

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menufacture and distrib

ate DescoverWare evod-

Michael Azthony Sind "This is a significant alliance with may a

Drike liserational grasp of companies.
As part of the deal, Disconce/Ware entend into cross-licensing arrangements with Bride company Compact/REP of Hoceas. Compact/REP products Disconce/Ware's CO ROM products under the Compact/REP private label. And Disconce/Ware's right friends on Compact/REP.

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world leader We're very excited because what Dhila brings to the table for us in breadth and depth of regeneror us be trally effective on a pitch brain." He tast DescoverWeer will go beyond document tries to skills assessment and

minute type products for businesses.

In September, DiscoverWare Inc.
appeared Wilson Decean so chierane offits
based. Domain to CRO of several Deske
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Younsee who has resigned to return to the
securities indicity, in Outside.



(Canada) lie for a promotion ralled Eusy Rafae, where VARs get pours by selling DisayverWine products that can be redeemed lewinsh leather gaders, reconstin hidre and Harloy-



Ther's serbing life fresh as, linetly assessy and an errara god half or you is a haddown for exponding business relationships, as Crussbern channel players can areas to lasteed the channel has been out in full faces, revisiging clashs, hittings bells at ones, and and even on consists, the precess.

In the August, 112 judicisty people showed up in Silver Lakes Golf & Courty Clash in Newsorick Det. For the Second Amaste.

Gelf & Courty Cub in Newmirlet. Det, for the Second Annual Local Area Network Design Association (AANDA) Gelf Tournament and banger. LADDA as a new perifs professional association, efficised to the on-going training of Canadian networking resident, systems surginger and considers. Also the source: the Canada Claims Computer Association

ontice preferences to the supep states from the territory case, in Southfull, Of Western policy, sweap their clobe at the Western Canadian Compart Destributes Society (WECCES), in the Western Lides course in Vincourse An NEC west by fairs, as a major species of this sement's

Export A State Come in Whisties B.C., where Greg Nomeon isuraphed over Jack Nickless, Fired Couples and Nick Paldo Meta-while, as gold wurdure the Research Couples and Nick Paldo Joseph Credit's State Couples and Nick Paldo State Couples

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It comes that the computer is becoming a simple commodity, bought and odd like a tousist of a pure of bio-guint Meat resident have long recognized the irray of setting beint the reconstigut at lower prices. Blanckinsky, benevice, falking prices have been efficie by

Steeper Harrisons is consumer demand and, consequently, increased revenues. The problem is this world appears to be obsequent. According to Abort Dooset, as analysis in Toronto-based. Evans Research Copp., drawed is up for new machines but supply in up even more, leading to fulf ing prices. "This year's average salling price of a

"This year's always soming proce of a declarge comparent \$1,50.5, down over \$2000 from last year's groce of \$2,000," women Docks. "This represents were than sell per cent, doop in york one year," he adds Messawhile, develop for decknop systems use up only an three per cent from last year's numbers.

is atther dispensing, some sentition point in the increase in large compare after the bit the increase in large compare after the bit the region. While it time that legist sales are openiously dealing growth, Vis Assauly as all filespisters midel can be based in chaning the suchward profession of layers optimated by the compare of the profession of the Numerically specified, sales of layers optimate any layer continues of the protinue and professional policy of the last proce for layers are falling as the 1996, the servinger price of a layery mass \$3.550, now at layers \$3.070°.

### Up And Down With Sans Clark, Calif-based Iriel Corp.

Rugh Byut, Compac Casalin's product mankening manager and the company's point porson for product Inforçois management, would strengthen the consoners and the CANALTIES COMPUTER WHILE FALER Designer 1882 - the department of

"Average solling priors sometimes go upwhen lated cuts preest, because customers will deade in they a higher end system whose prior has just been lowered, rather than take the low-end model," he explains. Tredeemed channel wandow such as

Tredeend chance! 'vadoo: such as Coping en his boxeng to been procus and tris their on-hard susenione: 'The company morehy out suggested to proce on 10 sentbook ICC on the Armedi line and four model of its PriNiges 200 server, with reducence ranging from fore its 66 gen cost. A few context age, Company Judded groun on three popular Designs models, some up to 24 per cost. What's Golding Om?

### A number of factors com

the PC is becoming increasingly chapper to manufacture. Some clearly wrather shorers that PC prices will fall below \$1,200 in the scal year or so. Meanwhile, as consistent become more confermalia with analodopy, day are more willing to buy based on price rather than breast and analogous and emphasis as preferences, are some and supreplaces on perferences, are control and supreplaces on perferences, are control and

rather than brand name appenl.

The connected market tools par most emphase as a performance, service and support, so it is less blody to gravatile toward the lovest price machines.

As supply shases demand, manufactures we slatting prices so keep up with direct

as an australig prices to step up with access author and an Idle Computer Chip and General 2000 line, A feel Computer Chip and General 2000 line, A feel computer Chip and General 2000 line, A feel confidence because or market and common market. According is Prical Bell, percent manager of Dell's consistent and study-bayeries group, the company's best Percent and A reduced up the company's best Percent and A reduced up the company's than 60 per cent in the market company and the company of the com

focused modifies in the news that Dell his impled its marketing budget for the home PC segment from a year ago. Additionally the company has gone on record as saying it would strengthen its ossomer provious and

take Now The Good News
Diff, of course has go starefront locations so

If can't sell in those consumers who want to

them (a critique) which suchidist using figurtions convincent) for addition, Dell seems to be trigiting uson experienced end-not constrates which know their way around a conpetite Dell's which be the expectably attractive for experienced computer bayers — gentrus about USES malloon is asked every day, exceeding to the computing. Resident should take heart recognising.

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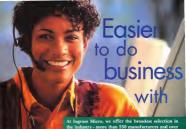
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that reach use a different DSP in each retroom! consistent mad address through an also, while that and, the compens is also belong for a building that's the key to everything." He

beart and soul of the product" That's how for Fort Knox Escrew, sharameteed the intellocasi property White this separa blue a serconditions are met - for example of the devel-

because on consuce to support themselves or seprent that product of read bo." In other Fort Knox Esproy presently has obout 7,000 charts in 17 courages save Cookie. But she nouse "As software continues to be

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Canadian influence, and also to processe jobs." filled by Canadans," she notes

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## The Big Picture

A Look At Monitors And Displays For 1998, In High-Resolution





## This past yest his reas the trace to change in shape, then it forces denied by there as a change and present the state of authorities and authorities are state of authorities and authorities are state of authorities are stated as a stated as a

I must form derived by consumer bedom, there of networks and contents and personal networks on and one for the property of the must be found of proved computing his best steps by bandfield devices such as the PalarHot, and

Wishows Cis computers, pars internal-fraction Noticeal Computers (NOS) and Noticeal (Fig. 1984), with bookle multimates forms computing systems integrated with home thesires, and true should produce controlled and have the computer of the controlled and the controlled And all these two yourselfshow of processed information demons have both demanded new display technologies,

inducty. But the multipart 10-lash and 15-lash refersorate enterpoles here intended the ministry of conputer excitors. These subtracted mouston here become theoret and other laments," and exist to see. According origin of time hour, despite potantingly provener, a word and weatherful graters of review storily display options in trainful arrestation. Intern former delibera, measures

dipleys are storing to link the computer to the hor rates medict. All of their changes in the computer dept matter offer are constraints to contribe meeting The Old Way is Still The Rest Way (for those on a hurinet)

The more some things change, the more or least a few other things remain the same. In late 1997, there is still a surprisently healthy detained for 14-such crossophrous surbody was in antity computers owns such to copy of usin and durch actuary reserved preferations. The

place wantly 14 each color SYCIA montar is the Source and Professioner Group retail education and segments, but there pert. much recreate to any about

that old 14-rach workhorse other Pey manufacturers are nature much effect into improving 14-rich recenters or polor varieties Indeed, 16-

and redusers alike But they small was maken erselves, do-knop publishing or realismed-s

forable new no Manufactures such as NEC. concrete displays, and constrain fluxery, beginnes and viewable area

**But Bigger IS Setter** 

Day of the manner casternies that has seen the 15-rach 40-kins morely represent The 17 inch

Those bevery offer years of computer lade more motory to get increased comfort.

and quality According to NEC, the oversecfut the choice of receipt a an important good quality, home-former manner - etc. a. in again of fulfact proper percently offer a ker-

mornor. With a desired

cost than 21 such manages hives't been reduced

months sien, is to correct the hearfitz of a

Features And Benefits Of Current Monitors

employers, decent auto-elient contents, and comtoe few stable mounters of the CRY ofte Sam end Todato how had-

codity openestors), the

Perform the burgest charge in the consider 15.75KHz (NTSC televisins frequency) to monitor sector Bigger, cheeper liquid erysuli year 1996 by Mus campeur mosters up

SORB). A sew trend to multimodal montars to to 15 75KHz, to make them companied with composite NTSC segach. Especially with

The vertical frequency range of most monitors to from about 40Hz to 120Hz A 5061; sharles in 164th to be very shake and unconferable to view for long peoply. The most variable, rock sold display a 900th or

me stoods ranged from about 40Mz to I SONE, and parties resolutions reasons from times, 1,660 by 1,280 rough. In negocial, the quality is each size category. The best quality

Blocks or NEC, 25-mm or bester des nich or matches, and seminar BNC respection for class, monton with conner, layer CRT depitches (generally 26 mm), fewer control extrees, and lower overall engages and harbs-

> The AperMany 75to 17 and is a high maor 758b, with a 26-way

about an \$850 store

maniferen 1,600 Ivo 1.280 resolution or 76 Rs. and 1,280 by 1074 at for a MSRP of \$1,139 The LCO Revolution

January Consider 1987 CANADIAN CONFUTER WHOLESALER 23

Zoo, Sorgers Technologues Inc. asked its sylention to become an active White Alligator exhibits at the mobeggest Moustor Lizzed, and accordbitrest computer massion vendor ed sato the top five of mountar van-

conguten and their CKT morators As well. to be enterrosed with a wide range of computor and madio visual equipment, process from

hambeld PCs, to video projection. comme and divisid

As major supple en such as Hitschi and Sharp have relacd ther manufacbillions of dollars worth

of involuntation mount formelione years, the cost of rotor LCD screen but phosented, while the son and emolates of

Many mustions are finding that notebook every often on locator acted a declared money office. The 13 3-such screens on today's topof the late southooks have nearly the save versible arm to a Pleast CET mounty. This services the lost of some CRI

higher one of top of project for this

## LCD Screens

On The Desktop saves are been mounted in ends from Indicar cool, is that

they take up less room on the without decrease a picture site However, more expressive from a CRT

users complien that the pictare quiety, nethodoly brightness and color some nex a memby layer Trains CRIs Nevertheless, some manufachave made a spinds

on LCD-dokup measure, and look forward screen set within a 50-per cent poor differ-

righted to CRC monitors, up to a quarter of PC time soles of LCD meeting will precipe restuded, attractors more window shopping

### When Small is Reautiful: Tiny Screens Everywhere

disploy of that lendhold PC seed mai for all knots of bondroid

szmoss and keyboards, while reducing weight explained in re-entry can the North Agreecan

> such as the People seterface on small for-

A more subtle tread is to integrate tary color LCDs uno all leads of digital devices cases. Se manele his an excellent oreeverposition and larbage of pictures before

### Set-Top Boxes. Surfing From The Sofa, And Other New Waves

After 15 years of company variety of factors are devices repoose connect to various kinds of re-connecting of computers and TVs to begin

## Displays, Canada

back as warsher three, after Daytek Scretz's prosdent and CEO



Zoo as a symbol both of the compacommunity roots in Canada According to List "Screen is work-

natioback PCs same 1999, in particuyear (1996), the market for LCD owncls was cold," he explained "The



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The advert of 15-inch LCD

Lie also varied that Scoptre is comrated to driving the cost of 15-inch

healther courseline in-

And although tradengent CRT towers, LCD monitor sides will take na unfastry wide proce gron se LCD

few regrets are, depositores

that castomers can trust We'll offer

and lumbotrons

devices which can present the greaters output of a commuter video card, or a feed from a

Web browning, the on convect discs (refer MPEG) | for-ROMs, or MPEG-2 and the unchalment of

The new line of Arcadia moustons from Proposes Graphics in a count extende of and counter compatibility in 28-inely or 31such CRTs, for one in the

### have or corporate process-The Monochrome Chetto

markets for monochrome chrome of anomalia divhandfeld godgets such as the

Commo, NBC and Phakes, the Newton Ande from cost, the main factor keeping

power consumption-either color LCDs will one early suppresented pay menuchance Apple E-Mass 1000, a near-neechook

sion 2.0, already in the bands of highway yendors, promises suppost for color screens NEC, for example is proving up to sing in color Windows CE handheld Projectors, Pixelboards

projectors, including Sharp, NDC and Epice excellencia are an comple of a fairly efficiave as a public

ored displays in public lugs one-portable LCD projection, are use-

wall. There are a variety of vendors of LCD

and VARs

### **Beware The Droof Factor**

is not always proportionage to its salebility wite quetient of a really serv new technoloon a wall as in inverse properties to its signif-Laste-sized LCD dokkey meetings and

technology demonstration than a morey mak-

### Displaying The Future

It seems black that there won't be now may sameday be a market for crede cards with LCD screens on them. Public phones within the next deende. More hornes the Web, or sateline Decen To-

> systems that project 3D For now, though, the

prospects for sides and modin to 1995. Its Jeff Erens is Assessive Editor of Consider. w/Skyma com



## Some things just naturally go together. HP NetServers and HP SureStore DLT Library.



sooner or later every server customer is going to need to back up all those files they're creating And no backup solution complement's an HP NetServer\*\* sale better than the new HP SureStore<sup>256</sup> DLT Library

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HP NetServes and HP Survision DLT Library It's heed to improve one without the other



### All's well that ends well? That's assuming one is content with the prom-

of a network, of course

But, laser printers now deliver impressive seigned for part pressure a page. However, when salling a new poster, first think about what is much treat. If o're month' and with

Consider a color laiver. If that's too eith the hodge, a high quality low cost, mit-jet person may do. Coccusing the right protest manus satisrag a halmon between creative empulse, and the mere pediatrian larks we all lists to wade through. And the person rove may be only

### In The Black

The procession of the process of the

what it must print. If it's animaly acts with muser logue and papelos, then a more colorine lawer parties is wastable Will your countries to during color processations.

Hat you can be glotter processations.

int you can request up your contenses with with the linest color proteins.

Who ever buys a black mad white I deviword Only if you are a collector and leaveremoval as amoques. You may work to revised
if you constructs of this when they're a hopping or
for in one younger II they're young the code,
bettern price tags addressing most mono-

there are:

Cong with color does open up grave
possibilities. Your constance creates a cray
business presentation (rion screen), profes in
our transparencies, all the right before of
the bone front could the lode rates there GPA,
an other posset with over-catching GPA.

cetter point with ope-catching term Our T

We aske
A new color pointer is also the perfect
resonant.

A new color painter in sho the perfect companies for a snapshot yearner is digital camen, or the photo-storage CDs you can get from professional filter developers. Color looks great no doubt Bet you'll still need sharp massechases profitig for letters, letters, and other removes the how with distinct

## Memory And Speed

cooking the buyer insire on the long run. The amount of RAM is a printer very made.

28 CANADIAN COMPUTER WHO ERN FR. Drawfor 1987. Per department of RAM.

depends on the task. Documents of up to 10 pages can easily be greated on a printer with a minimum of 1MB of RAM. As a rath, 512KB (on up to 2MB) of RAM is typical for a devloop laser, while 1MB or so a adequate for a coder rather three printers, as

motions of 2000 is unclear Alberga for depends on the interest environment to printen in graphes depotations beautiful historia in 2000 of RAN and office of convenients should have 1200 of RAN Fathermore, the higher the instance of a granter for shaper in the some afrangas, and 500 days in submit a facility in lines, organsistent may be a submitted of the conquent to 12 pages for measure and held for quent to 12 pages for mercely and held for a marked of french, do higher the measure, has more RAN in a rounded and the higher the more RAN in coordinated the higher than

### Our Tests

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5108

Monitor

16" President 28 Analog

Metherboards

Pent 75-200MHZ w/512Kpt

Pent 166-200Mhz MMX

17" ViewBorin 28 Flat-Dintal

on Vivingonic 28 Flat-Digital

ATT SO Exp. 2MB EDD RAM ATT DO EXC 2MB SGRAM Metrox Millenum II w/4MB or 6MB WESTERN DIGITAL

Memory 72-Pin EDO

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20X IDE et \$71.00

63032-60

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E-most preserv@fuptra.co. Francy's Kiese Of The Market:

the SOHO environment needing a high-volume bowness poster,

print products at Parinta "Versatile reser benefits" constribute. slong with PCL and PostScript printing are becoming have

recommended for this market comment.

Termovéve lentures métade à

14ADV's paper handling recludes two stendard resonanc natur feeders and the

printer can easily be expanded to do doplex printers." www Borns Eddard' Notes

lot of great features for a very resonable price. Under the bood is a SPARC Life RISC processor operation at 60MHz. This will half process the documents and gar them out onto paper with very lit-

to delays. It's classified as a 1 300 dm-class center, with a manexpendable to 67MB is total gues industry standard 72-cm

SIMMs. A dual tracer nation for this printer is based at \$495 from Faxou. Customers who buy this printer before Dec. 31 are eligi-

### Hewlot: Packerd LeserJet 5M

Lux Pone 52 251 Reselver Authorization Remainments

Tail-fee tings to resellers Pere-distribute (For the HP Lasarket 5, not the 5N or 5M)

Majotanzana And Enriquent Relationships With Revolver

Warmets is for one year, and includes parts and labor

Grano Glar Availability Available on resound

"It is designed for new estwork for reasons office use in medium to latte continues. The HP Laurelia 5 schools he set of basis ness primare. It's halt on the proven performance of the HP ter and more productive," says Catherine Morgan, corporate hand-30 CANADIAN COMPUTER WHOLESALER Desiber 1997 House

Section Streambs

Morgan eded factor application proter sharps and robus senior

mond clies environments The Lowerlet 1M from HP is a good example of HiP's communerate

to country practices. Powered by an least 6666F necessor as of memory, factor expendable to \$2MB. Maximum output reseporer tray as standard, plus on additional 100-steep/10-cavelogs provided for purallel sorrol, modelin DO. Ethernet and Apple Talls. Options for the 5M include a deplease unit, a 75-covelage power

niso an opeon for refranci windoss consequences on, as well as

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The new Xeron 4512 offers an excellent mix of performance and in up to 354000 pages CANADIAN COMPLITER WHICH ESALER Dutator 1987 Incommonweal

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E-men' concrete Poliship con Début Nove

600 by 600 dpi peaking, this printer offers a

enterface and a total masor casacrity of 600 absent. The RAM can he expended to a road of 66MR with 72-on SIMMs conclude everywhere, and optional starfaces are available for Ethernot, menthly districted rating of 24,000 pages, making a very well

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In high-resolution output, extensive prior handless corobables. asyone in a dealtran publishing environment, says Xante

The Aport a Wistow \$200 Statues a \$2MHz AMD 29050 wyprasor with post speak up to 16 year. Steaded RAM configuration is 12MS, with a maximum cayabity of 64MS. At 1,200 by 1,200

with great use of gray tases. Sundard paper easurity is a 250sheet areat tray olds as middless 100 obert feeder, for a total of

connected many. The 12-ran. 29240 processor remains 41 ship to NMS. A purelled interface Applicable noneurlane The 4512

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E-most for Public title: support the stores Booker's View IV The Morket

This is an enternely cost-effective pharmative to HP and Lengury, The HLM60 excepts industry standards in virtually NC1200 MIO card," says Dan Courville of Benther

constructs, with 17 pers, 4MB meetore consociable to 66MB can storduct SIMMs and a 650-short

Didney' Notes

end by a MPS R3000 processor which sum it

complement is 4MB, which is further expensible to an improvere 66MB to been represented 75 tion SIMMs. Separated statements options include a parallel port, as well as sorial and modular DO Brother has an estimated sirect race of \$439 and offers 100 are T Ethernet connectivity. Other consens on this model carbule a lower of real pairs of \$609. A deployer unit is revulable for a sarnested hat price of \$5000, known in the DX-1600. Plant memory and HDD cords can also be added to save attribute from reaccosto fewer to proper data. Tower correlates life is extent for 6,000 pages

Rong and AppleTidk

There is a 250-sheet standard resili-persone feeder expable of excellent performance at a very competence price. It books the mersy appliers as the proster's 66MHz Lounark Onsters are best-known for their increditive offers a vivil runber of setas there output in true 1,200 by 1,200 doi: and the 51650 to no option. Teser curtisless for the

BAM which is commission to a advancery 132MB more standard. both parallel and service with omines an ability for Ethernet, Teleco. copuble and offsecuble, the Ontra \$26.50 is an excellent choice.

Distance Makes

0442 1800 W/V

ned as model 2000 WX. This retires features an latel electric termination operation at 16MBh, and offers model of 30 mm at 600 social of 37MB. The 2000 WX has body a receiled and Etherner CANADIAN COMPUTER WHICH PUBLISH CONVENTION CONTINUES.

A depleting option is also usuable. an oldfischol SSI sheet names mosmonthly data overle on the unit or const.



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Max Resalmon (494)	1,200 by 600	000 by 2400	600 by 800	1,200 by 1,200
Max Speed (spin)	17	14	12	16
Margory (stational)	6NB/60HB	TIME/GWB	2M3/66W8	4V8/132V8
Uses Standard SIMMs	Yes	Yes	Yes	Nos
Interfaces (standart)	Perillei, Sanal, Moduler IIQ	Peralle!	Perafel, Seral, AppleTalk Modular (D, Ethernet	Parellel, Soreil
Interfaces (egocean)	Etherset, Takes Ring. Apple Talk	Serial, Ethernet, Apple Telk	Infrared wireless	Ethernet, AppleTell Token Ring
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Carrydon Life (pages)	5,000	5,800	6,000	7,500
	6,000	30,000	6,600	7,500
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Suggested Retail Price	\$1, 999 29	\$1,896	\$2,751	\$2,200
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incherve the vaccess that 5hds vogets for the was raich more compact than the product

closes and the MPF-III didn't lost logg Understed, the company adjusted the Ager first 16-bit computer in the wake of the BBM office in Son Jose, Cold, and followed with a shipped one rullion PCs and began to teste



States often Bands off representated style Unlike the Morrosoft CFO and a notembre to "Since real" short gorgoury projects he is

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used In addition the company developed

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what it calls a "fast food" forestee and assem-

then are street to assembly ones close to scale while also redering each and what

contomer - and that the reagh is unwised. Meanwhile the so-colled "chent-server"

makes offerts to hone fit from full use of Acor's

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New Strategy

new Autr manufacturies strategy - which fallen to new Aper America provider Mea deal to emploment a "custom configuration"

Age v AOPEN subsidiary is supplying Ager Rettill Switchs (Ager Aspire,

create their low of custom confirmed com-

AOPEN components, it gives Future Shop the Bey believ to build the machine that the cas-

some basic "build-to-order" capability there

We also says that the company is containchancel. He further explained that the com-

#### The Canadian Effort

assembly plant in Masssseers. Out Aver in renemes for the Creation

property total sales revenue of USS I 3 hillion Canadian sales, marketons, assembly and crudator service retryibes are manged from the head office in Massassaga, Det. Authory The Acer America head office as San Jaso. Calif . is used to support the Canadian branch product marketing, and administration

Trans Instruments nonebooks) are sold through four exposal distribution. EMJ Date Tech Data Canada. Endoscry package their

Meanwhile, Acre's ACPEN components. (such as CD ROMs, scanners, and market



The Casacian care afacturing surarises as divided into two none Acer-branded repremoneforceries is already underway in the

Strupples Ahead Nor assessment agreem to be openinged of

operating system technologies at market worldwide range/octating safrastracture. loss in the U.S. "They are not closes a year. good rob - they have not not done the (with the Texas Instrument netchook busi-

are maltiple. "They good to review memormanufacturer that salfs PCs darcett," she "We are not not project them stake out

se area (so the corporate sector). They had some fabulous profests and strong new

Geof Wheelsmalt is a Nancouner-based trek-

49 CANADIAN COMPUTER WHOLESALEH Outsider 1997 Inc. Commissioner

# FOCUS OF CASING...



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Asian printer sales above USS3 million, says study for the second quarter 1997 to the negter morshow over \$6 relikin patters being shipped

compared with first quarter shipments of nearly 1.5 million units. Total end-user revthe second swarter of the year Web more than billion in ced-mer revenue shapping in the billion is end over revenue in 1997

Arture models continue to show the degreents climbing more than 16 per cost senal dot matria printers fell from 22 per cera

192 000 units in Assa.

Empak opens new cleanroom molding plant in Malaysia

by his a new electrony molding plant in Malaysia, markets both the increment file

The 103,000 sames-feet facility, con-

ogoide the Malaysian capital of Kuala caracter shapping, admirscriber, and sterare costs. There is a repaire





 Soveret Editor Orbar Soverer Alor Lessing AND WHICH PERSON

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At Monadata Electric Industrial Co. Ltd., sales in the period from April to Just 1997 were 100,000 unto worldwide, and a company have 1997 more 200,000 away. The corporary plans DVD-Melen planor production of 600,000 units worldwide in the current fiscal year.

Assa Forecasts for the September 1997 to March 1998 period call for

Mancha Ltd., which is patting most of its development effort unto the connectes property DVDxROM and DVDxRAM foreses, said in sold 2,000 DVD-Video plasers in the period to the end of March. For the carrier fiscal year, which becam in April, it is trecetant sales of

Toolwho Cery would not release its figures, but said total sales in Assents the end of March 1997 were 150,000 units and a shared those

market, saving is shipped 120,000 units in the firee marks from April

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# **Voice Recognition** Software Comes of Age

programon, or BM Canada Lat. "We saw a

posts. ISM henched Simply Speaking in product for home and student users. An

Usability matters prestly to those Chargen "file had to speak slewly, and

new colleges, such as IBM's, morganous and

hio, it emplaces accords Sic. I committee recomming are tree foundliness, effering Microsoft Office 'F' import built-in tou-to-queath combitation compositivity with the Drugon Naturally

ween the vision recognition "organs" and emorly-used programs and applications

perest, as it allows decision - though not committed costed or assistance - week

'We saw a big iump in usability when we got away from relying

soundcards.\*

SM's Rosers poles to Steply Speaking Gelf's ability to sauther with Nimera

gating information lets comparational for Richard Hill, Oct-bood WHCard

The new software. such as IBM's. recognizes natural

speech, and recognizes both the context and the syntax used by the speaker."

graps are the interface between the voice cremen' and end-over applications Office light for coursely works with IRM and Drugon engines, and adds tomphose, mark cation range automateally with Microsoft OfficeRI, Corel WordPerfects, and Lotus some with added vectoring suitable for

lec produces Meditals, LowYoo, AltiesVisco, TMFinit and Derectals, each

Altine adds endancy experts to its program man and management years - \$2 can ductors "The only way to get the seconary

tweet receific interfaces, and improved procmonis, says legents Micro's Chapters, "then

rRM Corp.

Droppe Smices WildCord Technologies Inc.

Altine Technologies Inc.

OFFICE TOUR CANADIAN COMPUTED WHICH TAKET AN

#### **Reality Cheque: Corel Follows The Money** in Arti Fuses



state perhaps signals a

nees written in the Jova programming lanon developing new applications based on the other sofrene such as Microsoft Office, can Java chims on any Java virtual reachine )

(NCs) would very quelly certain Windowskeel PCs, and the Jose software Corel In fact, sales of NCs have been difficult to been so completion as a bas free. faced up to reality, and while maining that there is a loss some opportunity so the June. the market sall prefers the MS Windows

The swach of emphasis from Jesu to rey to concentrate on present winners, rather approfitable modects and markets

#### Rise, Fall And Rise Again for design graphics on the PC with its first

release of ConfDraw in 1996. While most of

ple to use, offeedable graphics software in the

company to business computing profession with their wallets for what was then the only fall fortated illustration software on the and unbestable value for money this knot CorelDraw's modific high in the reartroong bundreds of thousands of CorelDenw

**But Then What?** To enable further prowth, Cord moved into

# most of energonsive digital stock photogra-

ply libraries, eventually evidinities a late of CD-ROM rules, as well as a professional ref-

mortus, score that pile's poverful decuproduct line. For relatively lattle up-front gled ellerest to integrate it into the network-

What Went Wrong

None of Corolls new ventures renerated the

by un-approduable: after an unusable new respectable sales, but its encount marketists.

cetal nequisition price, beesting Cord's area sales but contribution little to short-And, finally, the Java institutes soughly

didn't show any resupect of increedings mypossisted for from a unable state, and their was dursty Network Cooputers (NCs) to run the software on, if and when it could be perfected **Back To Basics** 

catches its breath and estence the NT

Cauada's bazdfal of "world-class" software Jeff Evens is Associate Editor of Consider.



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## The Best in **Internet Gadgets?**

by Roas Colde



There are a number of rete" that should be While there are many tools available, the

is week everyoge's while to support the sions. A lot of these attailers deal with the most wanted There are some quite simple solu-

Company Mirabilia

Price free (while in hers) They us one of the meet unclai andeets that I in one. When you load it, you can let people on-line. Swall messages can be sent to people Internet tool, it could be used within a cons-

Product: Secretes

Socretes in a prest tool for stress-testing a number of chent machines performing a

specified number of hes to the sate. It then requests by taking the total paraber of

you will arrive it is time per request. By succession the pumbers, it is exemble to see mark CGEs and other Web server extension

Company Visal State Sec.

Product: TwokDUN

http://www.sex-access.com/-netaro/

This is no remove duspeed up did in

The Windows 91 defealt settings for TCP/IP forces ones monte on a SLIP or

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The Notlet product incremes surfag speed to the holinks on a page that is carrendly home viewed, in anticipation of the uncr clicking on one of them. This gives a per-By untilliagate looking shoot, when the the measuring the health of your internet conperson and where the bottlearcks lin so they ISP, remote Web site or the Internet sacif-

> Product: iHTML Freeware Company Infrae Internet Systems Inc.

Price free (more advanced versions arealspecivity to Web pages. This is loaded on the Web server and provides additional raps to

provide a more cobust set of ETML-for rigs. interaction With vites I have you find the shove mentioned

sure that I have left out many wonderful succes of software that are wordy of a monstorous so that they may be included in a

chests. He is also president of the Toronto.



## The Empire Strikes Bac Intel's CPU strakes



for the control of precision for PC-congrutate has employed this year, with the newly-competitive options from challenger. Cyrix and AMD, discussed last issue. This listed is responding to the fif the chance of the verification.

samene to keep shelf the choice of the newwhelming impact of compating rates.

We'll start with a quick overview of bursh's currout larget, which, purity according county of the company's Treat lander intertioning companys, powers 90 per cent of the south's personal companies.

\* Profiters. I total view superioral by the speci and exister with which the makes switched in an event MMX enodels, and visit stack with large combiner of sweet/pidel "classic larges."

returns MAX. And 27 materials make the materials and 1 per post and per to a material make the materials and 1 per post and per to a material materials and 1 per post and 1 per post and 1 per post and per post and 1 per post and 1

cache cup from \$12KBs, but its speed in stack at 2000Fbt, and no further enhancements are expected.

• Postkam BL letel's carried tay of the lare model is available at 2010Mbt, 2600Fbt and XXXMbt Zumen models have been been col-

we continue to the continue to

As well and increasing to quarter and applications or a cell from a procincation of an element of the cell of the

stable or lea-goverful Persua MMX

\*\*CPU. A parentimed Presion II theper sector in a computer parenter and temper through a Baccamer Re can be (440.X) adds Advanced Origins Peri sup-

port before to paid the graphes stalled of the man system has To benefit from this stans will need a new-model ACP refere cond, along with appending system support and graphible stell the relative of Windows 58 (Morphible or NT 50 our pair (In the same, m. Intel 1x reference a paid allowing without 55 to support ACP). The 4400LX chipses 45 to support ACP: The 4400LX chipses face allows Parasant II systems to see

section and sectio

333MHz remains in early 1996, with speech ramping up to 400Hz later that year. As well, look for a compact earlydge design, similed at this-han combooks. Batel also has a number upcoming CPU

Batel also has a construct specimen CPU models for new code-caused after mens. Barsh up on your geography for: 
\*\*Doodbates Emperand unity one years as a SOMSH's exclusive Broader Broadel manufacture of SOMSH's exclusive Broader and Katanas. This Alliskan river thip is expected to effer MMX-2, with orduneed 32-bits mollimedia molecules in each least mollimedia molecules in each least mollimedia molecules in each least and mollimedia mol

 Williamsteh, Expected line entry year, and manuscal P-Tro (xxx), with MMCs (xx MoCC-2) designed for the 100MSt line).
 Morreed, G. (Oldforma mixer). This immediates for the same of the causery. Will year three Morreed P-Doubled, fixer cands to fee and of the 32-34 x890-sense shart debend with 1985's.
 Shillow, Tayalamst, and to the Individual compatible with leafs 3, 32-bit designs and communications of companions of the Common specific conceptually with leafs 3, 32-bit designs and correct contrasts and ofference specials.

III. A new version of the chip has TMB of L2 (1490.X) adds Advanced Draphs
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# Are You Liable?

personal liability exposure as a director.



If you are operation a proportion his system. shap, you are personally liable for the full debts or habitation of your business. So you decade to apporthe really protect you in all expenses? holders are not personally hable for are dotos or habilities of the over-

persion unless the sharsholder sugged a personal guarantee, directors and officers goodd be Intale.

The lightly that most directors are notice-40 not stracently or undvertegly allow yourself to be saed as a director Directors can be individually and cel-"To protect yourself as much as possible from

mount of the debt or liability of the obligation of the company

very Some of the common areas of potential director hishday are as · Employee deductions. When disductions are taken off in employee's salary, they are to be remitted every month to Revenue Counts. If the

. Sales tax, if you are convenient a business that as responsible for col-Reverse Canada and fash to new it, you could be responsible as a

· Employment standards. If your company has not paid employees routh correlate to the sentencial economics described. That

. Workers' Connermation Board, in the event that your common

fish to make Workers' Compressions Board promotes, the WCS could also make a close against the directors. In addition, employees who assume they were concred for WCB protection in the event of

responsible if the company dal not pay · Extra-previocal business activity. If you are entra-provincially registered year corporation in

> trappings of a business, such as salephone nam-Canada, based from your home prayingast address. · Europeanusted durange, Both

it is your responsibility to be duly dispent in terms To protect sparself as

of monitoring the company's operation." much as possible from personal gest in terms of monitoring the company's operation. If you do not

tiess less to racke save that you have structured your director and offi-

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## **Are Your Customers** Secure?

Providing solutions to your customers' security concerns is a crucial service you can provide: and the rewards are lurrative by Pand Weinberg

The exchanged consumding the fraction is also producing some legat-Small to medium-ward organizations are finding their internal ago, a company with a 16-work-taston LAN raight have had some concorns about vulnerability weak appearing to wreak havon, or a news story appearing about a backer breakone into a corporate installations.

"TCPSPdopus's cure of you are a president or an individual " save Ores Shamon, chief scientist for the Ottawa-based Milkyway based GSA Consulting Group, said external threats to computer net-

firewalls and reprintive resters are still high, market resistance in about to reel. Fabrus says. "Rock the level of assurance, and level of mack [on a sestem] is going up [Security] in ght lead to the purchase

#### "TCP/IP doesn't care if you are a president or an indeadual." - Gree Shannon

The number of actual computer backers evaluable to damage too different from spuring your automobile. If you have a PC it is vol-

privately stored data. No new technology is required, he says, become,

Associates asserts however that it will be another six months or longer

the sendor stield. These are also proprietary susper, particularly with is the reductry, Printhand solds. "I can think of a half is dozen different does not stand out yet us a grantet by stielf, explains Lagry Noble, pres-

taken to the level of the BCMP are menting tape backups, noti-virus products and a firewall of there is

Markham One-based A.C. Niches & Co. a first that messeres are an approximate right new, says recount encourage, Darwi Ryce On the other hand, concerns reporting easy laternet access to

Michael Zherry, vice provided and research director for the 10,000 comparer visuos, of which about 200 are considered sensors

More agreems software vendors sociade Symantee Corp.,

Some classis will cover the procine by restalling different brands



- Brian Delix

trol, priviley of information, integrity of date, Bet resilien and evidence interrepresecurity specialists. It has something to do with lightlift, explana-



Although Komick, a VAR and systems branch organizations in implementing secure

ing environment. Often those security peofesgipt," which make it their real to show up savar help, in or ntraset, says Difks. Chesis approcuse Kanasik's limitations, he

No constitution is absolutely severy stores fields, even with all the protection in place, including perhaps a hierarchy of frewalls.

"People are falled into a false serie of vectors when they singlepolicy" he says Heree, Kansack's very by-step building block approach to overlage a system redutecture. Diffy has found that chiests we for to residence one means feeds of security be said. Knowak is on returner with accounts to maintain an oncome

breeches in an Internet-based network, as well in offer saletions to roet them out "People are lulled into a false sense of security when they implement a firewall. It is just one tool in the implementation of a security policy.\*

Dike mys that Kamark's mobiled awards insomer severely from its crusual focus in classicarver setwark applications. Mare clients include financial services companies and the farm teleos, both access. He has been engaged in the setting up of virted private perworks where "a accurate tanged" is equilibled between the elevaorganization and its remote rates ever the public data notworks. Here,

the Millionay Soverill technology is builded with excreption tools Agefor commune, the Edmester-based Galohad & Associates Inc., has a different present to the market. Farmerly,

a resoller representing Checkpoint florwall products, it has since Jayson Trinke, Galabat's abof financial officer, said. "Most wasted to get built to our mass facus. Coacomers are not sure what

#### "If you have a PC, it is vulnerable to attack." - Robert Fabous.

Execut - http://www.cyrce.com Gartner Geoup - http://www.gartner.com/newskys/nedex.html

Knurtek - http://www.kimatek.com Millower Networks - hos those millower com

Poul Westberg is a Toronto based pracriator, specializing in hightechnology reporting and husbary. He can be reached at



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be it p.GW or JPG picture, a Web page, or most

Accessing a simple page with only one graphic makes only two require. A typical saucle so any monthly issue on the any (including

rale of thumb - about a 10-to-1 requests-to-bits calculation, tends to Also note that the "tenant domains" would increment only once

of 10,000 recole from communeror rare all vested the site. Carbert For the month of August, smills on the site increased 20 per care

from earlier in the year which is encounting became that month is eseally a slow tree for computer and Usage ret-The noternal of the Internet is huge for those who figure out Interestingly, some of hour to tan it. Market research the Web site dance that

firm Dataquest says 82 million personal computers will be connected to the 'Net by the end of 1997, up 71 per cent over last year. That growth will We also found that "off-best" pages with soral to 268 million connected

entremely openiar For PCs, by the year 2001, says Giben prose, for example, Dataquest. Comptan or printers! Telliotte the Otton mer

was not listed knywhose on the sau - scaple proof that the large velsame of "hish" were coming from search criterios, not alle browsige. We can only aware that the fact that Galera's book. The Prophet in a possible source of quotes to use in worklangs may have boosted this prec's proplects further during the Applieto-Juga "wooding wason." "water, est" was one of the rest popular requests "Wires," of course

named (Euppropristriy) Articles about the "Near 2000 publishs" are attractive a resource

number of visitors. Web nutbering as a caregory was fairly hot, as were There is needle evidence to suggest that, at least on this sale, highfield - expensive when the frame remains valible on the left side of the

there is evidence that they keep people on your pages a lot lenger. Other torses and editorial areas that were expecially hot as Aurust Microsoft conspiney theorem,

 other PC secretics, especially NT and Worksup 96. Majortosh, especially "the future of," clones and Mee OS 8 pms. · JD and VRML.

· direct may making (GBV), and

Depth comerns and rok-yer pointers shall not face as well as we had generated they mught. But in Java popular? Not based on face state

Wi've been impressed with a new Web statistics analysis proerror culled Marketwave Hirlist. It exampolates morelly data from A trial version is freely downloadable from http://www.garketwave. coreful. Obviously, the reading pattern of an-larg visitors to now perfor asking visitors outright about how they feel about the service and one of eurobosing in the counseg months, and what part of your operathese could be supproved upon. People like to know you care about

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or AVI or QuekTime video file, which one be played close of the original tipe without the generational less of nealer video tipe

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Toshiba's Tecra 750 CDT features 233MHz Pentium On Sept. 8, Timbibs of Caroda, Information

the Texts 150 CDT also feetgres-

serous of the bank 233MHz

lead Pentago 166MHz chan-CPU sover consumption by 50

buttery lefe, according to To-butto

Torbibs was the mobile

per case This lower system power overhead has enabled the anclusion of features such as

the Torra 750CDT also disapprentes Forum boosse and shardows, DNB 2.0 BXXS

sensors ACM Vensor Lifesomers with PC97

include: 512KB of explined bank Level 2

cache: 22MR of FDO RAM terroyclote to According to Robert Grossman the

estend 4 TGB DVD-ROM done troubble is lite 1997). he danks and o with separat conformers includes corners.

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#### Steve lobs is interim Apple CEO



CEO will be served before the end of the year Compag adds partner manager



years in sales and technical auskeins roles at Casada Inc. Most recently, she was OEM

#### CA nets lieutenant general Commenter Associates Settlementated Inc. Inc.

Otto J. Guerther has journed CA to director of NAMED OF THE PARTY OF With more than 30 years experience in povernment procurement, contracts adminis-CA you the several will also as executing sole in proving the company's federal busilishing poversion contracts, remagnized of sectoric alliances, and the opposite admirin-

ed products that include comprise community

SoftQuad has new managers

Inc. his appointed Richard Robers chief expe-

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Compution in 1992 and was its Co-clarecton Selwin Robins perviously served as

go founded Alpha Sallware Curp. At Alpha product development, and strategy. He was

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PSINet names senior VP

day and chief figureral officer to senser vec-Prior to season the laterest service

chief figureal officer of the Hawer Group, spending, information technology, human

Seas acts PC games director Allo - Suas Emergences for her resource

vodeo garse sales.

The company says at well share 12 PC Apple VP resigns Gastrino De Laca, Aprile Comunier Inc's

Bes. 17-21 that need on since February 1997. not reflect my essessment of the company's are social a lot of changes at Apple, and Par

o-Business World/Camp Corond Software Mechanists

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confident that Apple will these again." 90 CANADIAN COMPUTER VINDLESALER Galder 1997 Applications on the

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#### Dominant Players Are Now Emerging In Application Development Tools Market

enested technology has been rect year con-

modern targeted as software application developers. The AD most family includes

Desktop Scanners Move Towards Commodity medice Scoreer Market Share

Resident/horizoid -- 1870 deprotek -- 12% Martink - 11% Legdsch -- 12%

large-scale application valvastient organic rapidly exceedcalled Scanner Mexico N Cready (1995-2000), pro-

Mossener, dropping pricing will contobate to people: 23 per pret growth to shipwould grow another 22 per cent. in 1988. ERC supposed scanners may utau see substantial consolidation in this indirect printers or medegy. The company professed sax per cont of PCs, in use this year will have The study cited other important prowth Otres - or remeteen' sorteins and

memory priors, declining storage costs better word, and more supposition productively. SR

#### Reader Poll Last Issue, we asked:

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